INFORMATION REPORT INFORMATION REPORT

CENTRAL INTELLIGENCE AGENCY

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OUNTRY	Bulgaria	REPORT
UBJECT	Georgi: Dimitrov Shipyards, Varna	DATE DISTR. 7 June 1957
	(description of facilities)	NO. PAGES 1
	management of factors	DEGLIDEMENT.
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ATE OF		REFERENCES
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DATE ACC	SOURCE EVALUATIONS ARE DEFINITIVE. AP	
	Attached are the following materials o	on the Georgi Dimitrov Shipyards,
	Varma:	25/1
	 a 14 page descriptive legend of th one, two, and three; 	e Georgi Dimitrov Zaveds mumbers
	b. a three page dascription of the Re technicians at Zavod number one;	serve Labor School for shipyard
.•	c. a detailed sketch of Zavod number	one;
	d. a sketch of the lathe machine shop	at Zavod number one;
	e. a sketch showing a front view of t	he major buildings of Zavod number one;
	f. a sketch showing the spare rudder	mechanism on a 1000 ton barge;
	g. a sketch showing the deck of a 100	0 ton barge;
	h. a sketch showing a top, side, and barge with a detailed view of the	
	i. a sketch showing the sluice at Zav	od number one; and
	j. a sketch of a tower crane.	
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**TACHMENT

VARNA SHIPYARDS 25X1

The Varna area includes three shippards known as "G. Dimitrov No. 1, No. 2, and No. 3 Shippards (industry) for Construction and Repair of Ships. No. 1 was formerly known as "Georgi Dimitrov" located to the west of the main basin of Varna Harbor.

- No. 2 is the former "Korolovag" located at the point where Devnya Canal joins Devnya Lake.
- No. 3 is the former "Neptoyn" adjacent to the electric mobile bridge spanning Devnya Canal.
- ZAVOD The foregoing shippards will hereafter for ease of reference be quoted as Zabond No. 1, No. 2, and No. 3, the same as labelled by the Bulgarians.
 - A. Shipyard Zabend No. 1 (Attachment #12 Drawing) refers to Zabend No. 1
 Shipyard and adjacent area. Hereunder is definition of symbols indicated in aforementioned drawing.

#38 Reserve Laborer's School - technician 25X1 section (OYTSILISTE ZA TROYVONTI REZERVI No. 38, located adjacent to the shipyard)

Zabond No 1. Until 1954, the latter, was titled as "Kormbso" G.

Dimitrov No. 1, i.e., BULGARIAN-SOVIET SHIPBUILDING ORGANIZATION "G. DIMITROV" No. 1.

It read as follows in the Bulgarian Language: KOPAGOCTPONTENHO

GZATTAPOCZBETCKO OSWECTBO "F DHMHTPOB" No. 1

In 1954, the foregoing legend was replaced by the following: KORAMBOSTROITELNI

/ KORAMBOREMONTNI ZABOND GEORGI NTIMITROF No.1" i.e., Shipperds
(Industry) for construction and repair of boats "Georgi Dimitrov" No. 1.

The legend in Bulgarian Language reads as follows: KoPAGOCTAONTEAHN

H KOPAGOPEMONTHU 3 ABOAH "G. DHMHTPOB" No. 1

25X1

When the Russians entered Bulgaria, the shippards in question were seized by the Russians as constituting spoils taken in war. Following completion of construction of the 1000 ton barges for the Russians by the afore-mentioned shippards (which construction cost was considered to have covered value of shippards stock in Russian possession) complete ownership of shippard was then transferred to Bulgarian State.

ORGANIZATION OF SHIPYARDS ZABOND NO. 1 AND ADJACENT AREA

Dimensions of structures (width, length) are quoted in drawing.

1. Anchorage point of Russian freighters where they are loaded with Bulgarian uranium. Length of pier here (built of cube stones) is $2\frac{1}{2}$ times longer than the Bulgarian ship "Chipka". There are no derricks on the pier. The latter is not girded but instead has 3 or 4 iron stakes driven into the river bottom.

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primarily used as a salvage boat. It can simultaneously facilitate five or six

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	2011111	OLUME		Page 3	
		CHMENT			25X1
divers. Approximate detailed to tow out their delivery to I fueled) tug boat, a four. It is ordinate	of the harbor l bussia. BURCHAS upproximately six	000 ton ba is a prewa t to seven	rges on experim r antiquated ir meters length.	ental runs p on one engir manned by a	prior to ne (coal
13. Anchorage two holds.	point for two ba	arges not i	n use, built of	cement, eac	ch containing 25X1
it has 3/4th located on the afor	tely 100 meters as of the length rementioned pier.	compared t	built of stone o No. 1 Pier.	blocks. Two or three	
15. In April capacity) was moore operated without se	or May 1954, (Ru d at point #12 (lf propelling po	anchorage	ting Derrick of point for Parvi	100 ton hoi Mai). It i	sting s electric
16. Sandy sho	re not used.				
17. Simple wo Rolling pins are bu sliding of conveyor foundation (to avoi of the stake is prosupporting it. passenger ships: "overhaul repairs on of plates, end axle	oden grate, similit of circular (i.e., makeshifd burrowing in sperly inclined, KALIAKRA" and "Eminor craft are setc). Likewise	tree trunks t wooden re and) suppos to wedge in MONA* and made on the e, cleaning	s greased with poller). Pipe 1: rt the craft on nto the craft's the freighter "The foregoing gray of the craft's	pulpy soap tine stakes we the flanks. side. there OZLONTOYI.* ate (i.e., reside) is ma	to facilitate with wide Top part by firmly General replacement de here.
Owing to its slantward cable wire is rende	red slack by the	laborer.			
indicates pulleys a	derrick, type PYI cks, hoisting cap ating that it is	le from the RGOU (KOULA pacity bein an antique	e winch to the and the second of three tons. In a ted type facili	grate. 13 Drawing itating ship	25X1) derricks yard sluice
a - b) c) d) e) f) g) h) i)	Operator's Cabi Counter weight Roller bearings Derrick's boom Four wheels on Electric Cable Electric cables derrick moves, is to avoid ent	in s on which six or set each side s winder. the cable tangling of	section of derr ven meters lengt Operates automa is rendered eit	rick rotates th atically, i	.e., when the
		111. L	SECRET		25X1

25X1

- Sanitized			CIA-RDP80T00246A035	5000050001-7						
•	CECRET	ECRET	Page 4	25X1						
			ATTACPMENT NO a	1.						
	i) Heavy haked	adobe bricks to	add further weight	to derricks						
	foundation.									
DEFICIENCIES	OF DERRICKS:									
Section Therefore se	a-b of derrick is : ction a-b is danger	relatively small ously inclined w	compared to derrick en heavy objects ar	's boom (f). e hoisted.						
	- Two drydock slu			25X1						
•	· ·		of sluice, built o	f cement is						
A.	gradually inclined	to the water.								
В•	the inside walls of the sluice are of cement, strengthened with rods driven into the ground by steam hammer. Lenght of sluice is approximately 60 to 70 meters and 10 to 12 meters wide. Floor level at the forepart of the sluice – where the flood gate is located – is approximately six to seven meters above the ground. After the forepart of the sluice is flooded, the top level of the sluice is approximately three meters above the surface of the water running in the sluice. The far end of the sluice levels off to the ground surface of the shippard premises, whereby it is possible for vehicles to enter the sluice. At the forepart of the sluice, there are stone stairs on both sides leading down to the floor of the sluice. They are									
		Rarges of 1000 to	on capacity, known b	v the Bulgarians						
	as "HILIANDA TONNA foregoing sluices each sluice at the barge, it was not more than one. The was under construct already launched,	BARTZA*, were befor the Russians time of construction feasible for the efollowing procest Shippard Zabortion in each sluwere in the final	eing constructed at only one barge at ction. Owing to the aforementioned sluitedure was adhered to	the time at the the time was in 25X1 ces to take in 0 one barge more barges, 25X1						
			each technician for							
			ed in work on aforem HILIANDA TONNA BARTZ	mentioned barges.25X1 AA (i.e., 1000						
c.	months were require launched, to const job from 0800 to 1	ed, as of the da ruct a 1000 ton 700 hours with on nished within the or one or two hour		the day it was nift was on the nnch. In the event						
			ECRET	25X1						

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25X1

25X1

- D. Rough Outline of Methods in Barge Construction Three rows of stumps (one in the center and two more flanking it) are placed on the floor bottom of the sluice to support the newly laid barge keel. Three or four groups, each composed of five or fix persons, are engaged in laying the keel and assembling the different metal sections welded by one welder in each group. Each sluice is equipped with mobile transformer to change the alternating current to continuous. Incidentally, at the Varna is supplied with alternating current. time the barges were under construction - five or six mobile transformers of the above type in each sluice. As mentioned above, only work on the keel and welding of parts are conducted in the sluice. The metal sections or parts prior to being welded are prepared at the respective sections in the shipyard which are equipped with the proper machinery. Many of the pieces composing a section are welded in the shipyard workshops (e.g. fore peak, after peak) which are subsequently hauled to the sluice to be installed in the barge. Transportation of the different parts from the shippard workshops to the sluice, is conducted by tractor towed special four wheel (compact tire) vehicle. Following completion of the barge, it is launched by sliding it over the wooden grate in the following manner. Rolling pins greased with pulp soap are placed under the barge. Oblong beams spliced with iron rods are then placed on top of the rolling pins. Subsequently the barge is stripped off its supporters (i.e., stumps) beginning with the central row followed by the two other rows flanking it. The craft then rests on the grate ready to be launched. Two cable wires fastened to the far end of the sluice are tied to the barge. By opening the floodgate, the forepart of the sluice is flooded thereby snaping the cables to allow the craft to glide slowly to the sea. craft being hoisted in the sluice by utilizing #18 winch with 25X1 pulleys.
- E. Definition of #lh Drawing Definition of symbols indicated in #lh Drawing pertaining to view of sluice-way:
 - a-b Length of 1000 ton barge occupied space a-e. This is to compare with total length of sluice.
 - c&d Two staircases on sides of sluice.
 - e Floodgate of the sluice.
 - f Sea

	Description	of	1000	Ton	Barge	-	Herewith	is	definition	of	numbers	indicated	in
#15	Drawing.		-										25 X ′

Letters on the barge sides indicates that they are Soviet State Danube River Boats: SOBETSKE GKOSOUNTAP STEENO NTOYNAISKO PARAHOTSTBO.

in Ruse No. 1022, One Thousand Ton Barge.

25X1
30 to 10 one thousand

ton barges have been built.

Material for their

construction all came from Soviet Union. Dimensions of aforementioned barge approximately 50 meters length, approximately 4 to 5 meters width. Height from keel to main

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	CRET	Page 6 25X ² 25X ²					
	o five meters. Hull of barge protruding from the ters high. It has one hold. Entrance leading high.						
	forepart dry compartment abaft dry compartment Semblance to engine room. Equipped with elect boiler. Generator supplies the power to motiv the water from the dry bottom compartments and	vate the pumps, extricati I from the sea water cist	ng erns.				
	pumps. It is possible two. Generator of Russian make, supplies curr	es are equipped with two that there may be more th	5X1 an :5X1				
d)	Two ventiducts, of the engine room where the g Barge is not equipped with self-propelling pow						
e)	Manual crane anchor						
f)	Two lief boats						
g)	g) Balanced rudder. Each barge has two evenly balanced rudders operating simultaneously. The interior of the rudder is filled with asphalt.						
h)	h) Aperture, shut off by valve through which liquid asphalt is poured in the interior of the rudder which subsequently solidifies.						
i)	i) Aperture, in rudder through which chain passes, fasten to the (16x10V? of the barge. Chain is utilized as (?) to steer the rudder beyond designed angle.						
j)	Rudder mechanism. Barge is equipped with two, fastened by chain to the rudders' wheel. Deta abaft is indicated in #15 Drawing (c'Plan). S of the rudder snap, there is a spare mechanism the rudder's axles with the rudder wheel.	ails of rudder mechanism Should one of the cables					
k)	System of cog wheel compose spare rudder mechathe cables connecting the steering wheel with spare mechanism is illustrated in #17 Drawing.	the rudder break. Entir					
1)	Transversed view of the lateral sea water cist located between the dry compartment, which ext length of the barge, and the exterior side of compartment is transversely divided into small creating on each side of the barge, five to s	the barge. The lengthwi er compartments thereby	se				
m)	Transversal view of the aforementioned lengthw	rise partition. 2	25 X 1				
n)	#16 Drawing illustrates hatch ways on deck lea compartments. Height of the latter is 0.50 me the aforementioned 1000 ton barges are the onl	eters.					
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	CTORI Page 7	
	~75 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	25X1
	Danube constructed with dry bottom compartments.	25X1
,	•	20/1
0)		
	Above are constructed with 8 mm plates. Dimensions of each plate 5 m x 2m. Keel plate (level) is 10 mm. The aforementioned craft not framed with conventional type beams but the exterior plates are placed as follows: Each beam is not comprised of one piece but is divided into pieces. Each piece is 0.50 away from the other, weld to the interior side of the hull plate. Though each beam piece is of the same width as the hull plate (i.e. 2m) yet it is adjusted to protrude at the above edge of each hull plate by 0.20 m. This is allow the following hull plate to be welded on the protruding part the preceding beam. Thus the barge is constructed following the adescribed pattern. though 1000 Ton Barges were constructed at Shipyard Zabond No. 1 in Varna for the Russians, yet job was not supervised by Russian technicians. Prior only to the delivery of the above craft, they were inspected by Russian official accompanied by the Shipyard Deputy Director and Supervisor of Ship ZE-KA No. 1 Workshop.	is re led to of lbove 25X1 t the
21, 26	Two floodgates of sluice, one for each.	
22, 23	Two electric cranes, each operating on rail tracks supplied with a conveyed by three wires, lying in ditch parallel to the rail track. Three ironrods, resembling those of trolley car, protruding undernate crane wheel touch respectively the live wires lying in the dit Current is three phase. Each crane has eight wheels on each side. are of German make, installed at the aforementioned shippard in will 1953, hoisting capacity of each crane being 40 tons.	s. eath ch. They
	on cranes model placard, a number reading either 4000 or 40,000 kilos. Nonetheless hoisting power of the aforementioned crane is 40 tons. While demonstrating one day, the crane hoisted simultaneously three to four propellers weighing three or four tons, one ten ton engine of interior combus German make and another heavy item. Floor ground on which the cramove is strengthened with iron rod cement girders. such girders being placed for Crane. Dimensions of the aforem girders: Length - 10 meters, width - 0.25 meters, height - 0.25 m. The girders are driven into the ground by shipyard steam hammer an cement covered. The rail tracks on which the crane moves, are plover the aforementioned girders.	as g 25X1 g 25X1 g each tion of nes entioned eters. d then
21,	Distance between the two sluices is six to seven meters.	
27	Pier is six to seven meters high	
28	Pier approximately 60 to 70 meters long, 20 meters wide, built of stones used for docking 1000 ton barges following their completion Frequently, the newly constructed barges are moored side by side	cube 25X1

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	Page 8	25X1
		25X1
	more on the other side.	i three
29	Wooden structure with triangle roof used as painter's work	shop.
29a	Cement barge built by NEPTUNE Shippard (i.e., Zabond No. 3 at this point in Spring 1954 for installation of metal par	
3 0	Pier, 20 meters long built of cubestones. Cement barge (que was moored here following its completion.	uoted in 29a) 25X1
31	Ground area on which no technical improvement has been made used for shipbuilding. only 1000 ton constructed here, two at a time, lying one after the other of stumps, i.e., one in the center flanked on each side by Owing to lack of proper grates no repairs are made here. I grate is not available here, launching of barges being obtelateral position. Three or four wooden grates (of the type 17) are utilized for barge launching. Shore is sandy at the known as STAPEL PESA-TSITEN (i.e., sandy shore for ship but	barges were on three rows one row. Permanent ained from e quoted by his point
32	Two electric cranes supplied with current the same as quote They are mobile operating on rail tracks, imbedded in cemer Approximate distance between the two cranes is 12 meters, area being used for ship building. Thereby the aforementic tower over the newly constructed craft. though they are the same as the other, yet the hoisting cap the last two are 12 and 13 ton respectively. The above two an archway and are labelled as "POLTALEN KRAN" (i.e., crans They run on eight wheels, four on each side. Length of rail which they run is approximately 120 meters. Distance from shore is approximately 20 meters.	interceding production of cranes create with arch).
33	Electric cutter installed in wooden structure. It cleaves services #32 Shipyard. The same cutter is equipped at one	It
	mechanical punch (i.e., automatic drill).	
34	Wooden structure approximately 80 meters long, five meters Two sections quart aforementioned structure are known as #34 and 34b. No. 34s house where receipted tools are supplied to personnel of #3 No. 34b houses shipyard's tinsmith workshop.	tered in the a is a tool 25X1
35	Net work of Zabond No. 1. Cement pathways approximately the wide (they are marked with red lines).	ree meters
36	Width of exterior fence located approximately 40 meters from	om the sea.
37	Area where plates and miscellaneous items are cleansed with compressed air. SECRET	sand and 25X1

- One-story baked adobe structure where approximately ten persons are employed. Three iron coke furnaces are installed here. Compressed air from the air compressor unit is puffed into the aforementioned furnaces. Furthermore, two anvils and four or five mechanical hammers operated by compressed air are located in the same structure. All (including the largest) hammers, are of Russian origin

 There is also electric saw machine equipped with rotating iron blade that can cleave iron rods as much as 20 cm thick.
- One-story tile roof structure built of baked adobe bricks, quartering the sanitation agency of the shippards, staffed by one doctor, a dentist and two nurses. The same agency includes a first aid dispensary. The ship-yards official exercising supervision over security regulations pertaining to prevention of accidents is housed here too. His office is titled as OKRANA NATROUNTA (Work Security).
- 42. This is the largest structure of Shipyard Zabond No. 1. It is titled under Russian name J.K. 1 (read us ZE-KA No. 1 - i.e., First Workshop). Bulgarians call it Boiler Workshop though it is not so. It is cement built, over ten meters high. The aforementioned workshop includes a mezzanine floor (marked with red pencil) used as draft room for large scale designing of ship lines. It is partioned off to include the workshop tool house. Point a-b indicates plate supported to the wall by three rods utilized as work bench. Dimensions of plate: 20 mm thick. .06 m wide and 0.50 m above the ground floor of the workshop. Assembly work on craft metal parts is conducted on the aforementioned work bench. Mechanical equipment of ZE-KA No. 1 is as follows: Two small (old model) electric cutters are equipped at one end with mechanical punch. Two electric hone machines. Elevated iron rail tracks reaching nearly 25X1 to the ceiling of ZE-KA No. 1 are supported by pillars. Three elevated electric cranes are operated on the elevated rail tracks. Two of them are located near the center of the workshop reaching above the work bench (as indicated by a-b). The third crane is over at the other half of the section of ZE-KA. The two cranes located above a-b plate have hoisting power capacity 12 and 3 tons. The third crane has likewise 3 ton hoisting capacity. Operators of the aforementioned cranes climb to mezzanine floor located above the pillars supporting the elevated rail tracks on which the cranes run. There is a pathway from which the operators climb into the crane's cabins.

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Page 10

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25X1

25X1

25X1

25X1

Press motivated by electric generator. The latter supplies power to air compressor unit whereby press functions with compressed air. The aforementioned press is new, of 250 ton capacity

the foregoing press was installed in 1954 inasmuch as 25X1 25X1 preparations to install it at the aforementioned site were made in 1953. There is a third electric cutter located at the center of the workshop in addition to the two foregoing. The third electric cutter in question is motivated by electric generator and can cleave plates as thick as 18 mm. Mechanical punch is attached to its end. Special cutter (guillotine type) is available for cleaving of elongated 25X1

(20 to 24mm thick) plates to 4 meters size. Furthermore furnace is available for incandescence of plates being processed in the finishing phase whereby they are subsequently placed 25X1 in molds. Wooden hammers give the desired length. fuel used by the aforementioned furnaces, whose approximate dimensions are 10 meters long and 4 meters wide. Leastwise they are not coke or coal fueled. ZE-KA No. 1 roof is latticed with apertures for illumination.

- **L**3 Wooden structure: Antiquated electric cutter is located here, (of the guillotine type). cleaving plates to size of 4 meters long, 20-24 mm thick. Specialized operator manage latter guillotine type cutters.
- 44 Tile roof structure built of baked adobe bricks. Approximately 20 electric lathing machines (2 to 5 meters long each) are located in the aforementioned structure. Four or five are of Russian make (KRASNI PROLETARII model). Though new, model is antiquated. Four or five are of Czechslove. 25X1 kian make

Special electric machine of Czechslovakian make is available here too for surface smoothing of minor items. Smoothing procedure is effected by cylinder wheel of same design as used by hone machines. Oblong lathe machine approximately six meters long of German make, was observed also. It operates with belt band rotated by accessory generator. The foregoing lathe machine is for smoothing of ship axles. There is also special electric lathe machines of Czechoslovakian make in addition to the aforementioned. It is utilized in smooth surfacing processing of craft pillars (?). Gear wheels are prepared by special electric machine of Russian make equipped with two blades. Five or six electric lathe machines of German make located here are used also for surface smoothing of petty items. There are known in the Bulgarian language as "SEPING MASINA" two electric (?) of Czechoslovakian origin, are used to adjust miscellaneous drill and carving bits (RAIMBLA). Electric elevated crane. run on rail tracks, located near the ceiling, is operated by remote control. (i.e., operator does not climb on to the crane). Tool house (a) is located in the aforementioned lathe machine shop.

L5 Carpenter's workshop. One-story baked adobe brick structure with mezzanine floor where life boats are built. The foregoing shop is equipped with two or three electric band saws and three or four electric planes and vacuum apparatus for suction, of sawdust which is ejected out of the work-

Sanitiz	ed Copy A	bbroked for K	elease 2010/05/28	ATTACHMENT	J0050001-7
		T FR. V.P.S.		Page 11	25X1
	shop to	a waiting	van.		25X1
46	the kit	chen and di	obe brick struct ning parlor. The	cure. The ground floor se above floor is a meet ards personnel.	is occupied by ing room utilized
47	stored. painted prevent to 50%	Entrance with white sabotage of should such	to this building substance bar i therwise volume	ure where in air compre is strictly forbidden. nside view. Strict mea work of shipyard would Net work distributing led.	Window panes sures are to be minimized
48	One-sto	ry building ipyard depu	housing shipyar ty director is l	d administration.	
49	Saw Mil is used	l: One-stor	ry tile roof str g of tree trunks	ucture built of baked a and lumber.boards.	dobe bricks. It
50,51		ry tile room contains bat	l baked adobe st throoms, designs	ructure consisting of t	
52	as smell (incando origin) Elevated contain	ter. Four of escent?) bri piled out in delectric of ing the red ation of ges	or five, and pos cks. In front of the forane operating hot steel (in 1	re, built of baked adobesibly more coke furnaces new cast iron oregoing smeltering estential tracks picks upiquid form) to pour it insover the mold is assistant.	s built with n of Russian 25X1 ablishment. the cauldron in molds.
		ated here. tric function	oned.	Desiccators (to	o dry the molds)
53	Triangle	e tile roof, etc.	wooden structu	re, used as storehouse i	for coke and
54	floor is of state Represent (MORSKI	s occupied be agency, wh ntative is B	y the accounting ich ordains reg sulgarian but als Library is also	t of baked adobe bricks, g office, cashier and re lations and principles so delegates his Russian o located here. Shipbui	spresentative on shipbuilding. on counterpart
55	Volley h	oall terrain	for shipyard pe	ersonnel.	
56	OY.T.R.N	NO 38 Tec hni	cal Shipyard Sch	ool.	
	a)	consisted	of four class re	asions 30 x 20 meters). coms, one technical laborion offices, secretaria	ratory, teacher's

25X1

the foregoing fence is made with ease.

Exterior Zabond No. 1 wooden fence, 2 meters high. Entrance through

Outside walls of structure located at the perimeter of the shipyard

65b

65c

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	erene7	SECRET	Page 13	25X1
	wnich constitute	the border line	to the premises.	25X1
66	Tile roof shed fo	or lumber storag	9.	
67	Dirt road leading	g from the Naval	Base to the city.	
68	Stove plant known	as "METAL".		
69	Oil seed mill kno	own in the past	BRATIL DONEVI".	li,
	which are the lar	gest on the prem	Front of #42, #44 and #45 mises of Zabond No. 1. I where the lathe machine s	In. 10 Draweine
entrance and aforemention premises at equipped with the adjacent Shipyard Zab Fire squad is fire engines allowed other event of (?) 3rd Gene technicians ander joint I was Russian. does not communicate the communication of the communication	approximately 10 and sentries are armight are enforced in special card with OY ZA TR P No. 38 and No. 1 for trains detailed to chece. Should a fire be than the lumber air raid alarm. Beral Information Representation Representation and the shippare at the shippare authorized privately approximately 1500 approximately 1500 and three or four trains approximately 1500 at three or four trains approximately 1500 and three or four trains approximately 1500 at 1700 hours and three or four trains approximately 1500 at 1700 hours and three or four trains approximately 1500 at 1700 hours and three or four trains approximately 1500 at 1700 hours and three or four trains approximately 1500 at 1700 hours and three or four trains approximately 1500 at 1700 hours and three or four trains approximately 1500 at 1700 hours and three or four trains approximately 1500 at 1700 hours and 1500 at 1700 hour	hipyard. One se sentries patrol med with pistol. with police dog h picture of the Technical Shipy ning. They entek fire points in reak out they hastorage area. P ZAVOO e: Zabond No. 1 d. Nor were the administration. with DEVNY CANA o. The foregoin with one hour brucks.	re any at the time the shother than the Director G Shipyard Za L. Zabond No. 1 personne g shipyards work with one eak for lunch. The same	doned at each day. All e shipyard is Students of other day hal pass. Lipped with es. Smoking is diled in the do Russian 25X1 ipyards were eneral who bond No. 1 25X1 l is estimated shift. Winter shipyards are 25X1
S "NONIMOVAC	r. The alorement	oned shipyards	called, formerly known in are marked under #20 in #	16 Drawing. 25X1
mentioned flo waters of DEV	pating dock is moor MAN LAKE adjacent t	ed outside the red outside the resolution of the old Varna afternmentioned	asmuch as it is destroyed, aforementioned shipyard. premises of Zabond No. 2	The afore 25X1 in the shallow 25X1
AND DOT ROD HE	wer) at point (a) s processed on gro Russians. Cement	in pertinent dra unded supports.		r/o self 25X1 forementioned were being 25X1 at the same
	31111			25X1

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Page 14

25X1

time. It was fish processing floating plant, docked there to undergo finishing job
on its metal parts. The aforementioned craft was built at Shipyards Zabond No. 3.
the latter craft was to be delivered to Russia. Zabond No. 2
includes a group of five or six large one story structures. Capacity of afore 25X1
mentioned two tanker barges under construction was 500 tons each. Exterior hull
plates were riveted. Approximate personnel employed at Zabond No. 2 is estimated
to be 500.
25X1
C SHIPYARD ZABOND NO. 3 - So are the aforementioned shipyard called formerly known
in the past as "NEPTOUN". This indicated in #15 Drawing (point 20). Zabord No. 3.
(IOT construction of cement craft) is located on the Varna-Asparouhovd Road adjacent
to the electric mobile bridge spanning DEVNWA CANAL.
It is equipped with two grates. At 25X1
point (a), open shed, approximately 15 meters high, where coment was
poured in molds. The latter (i.e., molds supported on stumps were launched on
wooden grate similar shed was located parallel to the first (i.e. point a). Entrance
to Zabond No. 3 is indicated at point (b).
Cement craft launched from the latter shipyards are moored 25X1
to Shipyards Zabond No. 1 and 2, to undergo finishing job on metal parts.
D PERMANENT DRY DOCK -
information pertaining to the aforementioned dry dock (opened in September 1955),
Floodgate of permanent dry dock located at DEVNO
CANAL was built at Shipyards Zabond No. 1. Construction work on aforementioned
floodgate commenced either in autumn 1953 or early 1950, and finished in summer 1950.
It is approximately 15 meters long and 3 meters wide (at the broadest point). Plates
are welded. It was built at point 31 indicated in #12 Drawing by STOPOF (surname
SIOPA), technician foreman who has built four other smaller floodgates
Permanent Dock is called by the Bulgarians as
(SOYH DOCK".)
25X1
23%1
057/4

25X1

25X1

SECRET



PERRIEDE LAROPERIS SCHOOT. #38 FOR SHIPYARD TECHNICIANS Sanitized Copy Approved for Release 2010/05/28 : CIA-RDP80T00246A035000050001-7

entioned school is indicated in #12 Drawing (serial #56) description or school bullding is quoted in chapter re: ORGANIZATION OF ZABOND NO. 1 SHIPYARDS. Number of students acceptable at the aforementioned school depends on personnel requirements of shipyards. The aforementioned school includes the following three sections (specifications):

- a. Fitters or blacksmiths specialized in ship construction and repairs. (SLOSERI ZASTROES IREMONT NA KOREMBI)
- b. Fitters and blacksmiths specialized in hydraulic and steam pipe installation performed on ships either in construction or repair storage (plumbers).
- c. Electric-oxygen welders.

Attendance is two years. In the first year (as of September until July) trainees are taught theoretical principles being subject every other day to practical training at Zabond No. 1 Shipyards. The same program is adhered to in the first quarter (i.e., as of September and December) of the second year of attendance. As of January until July (2nd year) trainees are allocated in Varna or Ruse Shipyards 25X1 for apprentice-ship course.

following trainees.

In 1953-54, Class accepted the

A Section 70 trainees

B Section 50 trainees

C Section 30 trainees

On September 1, 1954, following trainees entered in respective sections:

A Section 60 trainees

B Section 35 trainees

C Section either 23 or 25 trainees

Data provided by the Shipyard pertaining to personnel requirements, determines the number of trainees to be accepted at the foregoing school. Sixty-six completed the prescribed course at A Section in 1953.

Qualifications: The following prerequisites are submitted by the prospective trainees applying to the foregoing school.

a. High School Diploma

b. Background History (in duplicate)

c. Age: Not over 17

Testimonial letter furnished by Municipal or Community Board of the district applicant comes from. This letter is forwarded through competent channels to the aforementioned school. 25X1

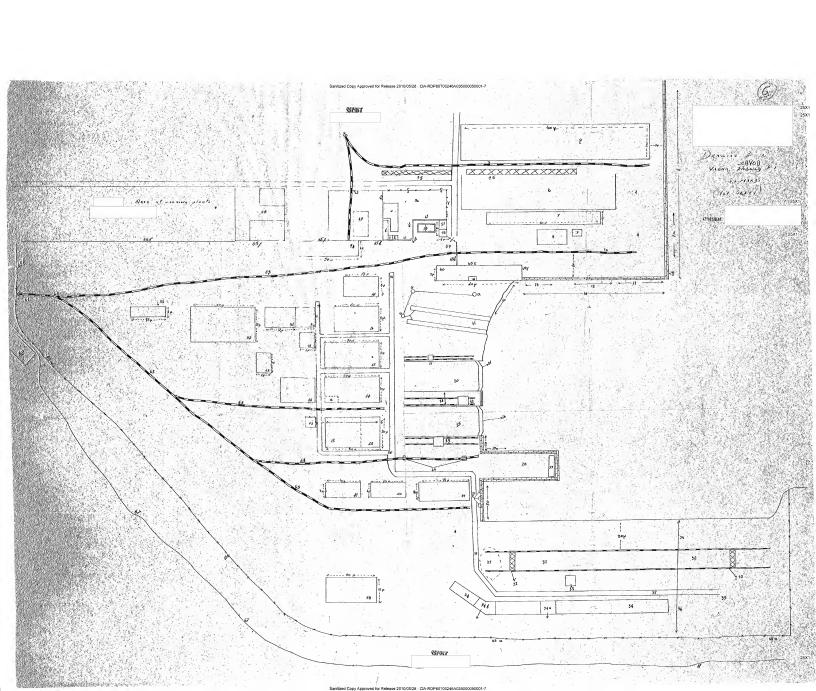
ATTACHMENT CEPDET

Sanitized Copy Approved for Release 2010/05/28: CIA-RDP80T00246A035000050001-7 SFCRFT Page 2 25X1 ATTACHMENT 25X1 School provides clothing items, food and board. 25X1 Nikola KOVATSEF was School Director in 1953. In Autum 1954 the foregoing director was replaced by Nikola RAMBATZTEF rollowing were training instructors of 'A! Section (fitters). Nikola DIMITROV, former reserve naval officer Ivan Markof FILTPOF 25X1 A. KOSAMBOF was teacher at 'C' Section (welders). A. MANDEF taught in all three sections of the aforementioned school. P.O.A. DENISKOF, taught in 'B' Section (hydraulics). 25X1 Curriculum: Special Technology and Plans. taught by TSERNOFSKT Mathematics: Professor RANDEVA Physics: Professor ILIEV Ship Designing: Engineer-Shipwright instructors: Zaltko ZIATEV, GANTSEF. Both were employed as draftsmen at Zabond No. 1 Russian Language: Taught thrice weekly 25X1 Political Guidance: GOURGIEVA (female) Physical Training: Professor EVGENI KORN AZOF. Material Duration; Professor DOMBREF Bulgarian Lauguage: & Literature: Professor Pendo PENIEF. The foregoing curriculum was prescribed at 'A' Section (fitters) barring ship designing course being taught in 'B' Section. Engineer-Shipwright TSEMOFSKI was the school key instructor in technical training. Party: Ivan Markof FILIPOF, was D.N.S.M. Faculty Secretary and Faculty Party Organization Secretary. 25X1 School Quarters: School building was formerly textile mill. the aforementioned school was closed some time ago by Sanitation Center owing to unsanitary conditions but reopened upon failure to locate better building. The building is flea infested. It is lacking in space as result of which half of the trainees are but billeted in the school and the other half in another building, located outside 25X1

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Sanitized Copy Approved for Release 2010/05/28: CIA-RDP80T00246A035000050001-7 SFERFT SCORE 25X1 Page 3 **ATTACHMENT** the school premises at VELIKO TER NOVA St., (possibly #18) adjacent to the railros 25X1 station. The above story is used as a school dormitory. However, the same story is used as billeting quarters by Zabond No. 1 Shipyard laborers. 1953 Class was billeted in the latter building. The ground floor of the same building was utilized as storehouse. Daily School Program: Daily lessons averaged six to eight hours. Daily Thereotical Lessons Program: 0700-0715 hours - Reveille 0715-0730 - Gymnastics 0730-0800 11 - Breakfast - Recess 0800-1230 - Class lesson (five hours) 1230-1300 11 - Noon Meal 1315-1530 ** - Class lessons 25X1 1530-1700 11 - Recess 1700-1900 25X1 - Home study 1930 11 - Supper Subsequently, departure of trainees billeted at VELKO TERNOVON St. dormitory. Daily Training Program: Same program as the foregoing during hours 0700-B. 0730. 0730-1230 hours - practical training at Zabond No. 1 Shipyards. trainees of Hydraulics Section are trained at Zabond No. 2 Shipyards (formerly KORALOVAG) inasmuch as hydraulics installations are available at the latter shipyard. 1230-1330 hours - noon meal. 1330-1530 " - home study. Subsequently, departure of those trainees equipped with two-hour leave pass. Ten to fifteen trainees are permitted daily to leave school premises for a period of two hours (i.e., 1700-1900 hours). General Information: Trainees wear black uniform (i.e., closed jacket, trousers and cap with badge). Wrench and hammer are engraved on cap badge in lieu of national emblem. Leather belt is worn with buckle bearing initials: Y.T.R. Likewise shoes worn by trainees are black. 25X1

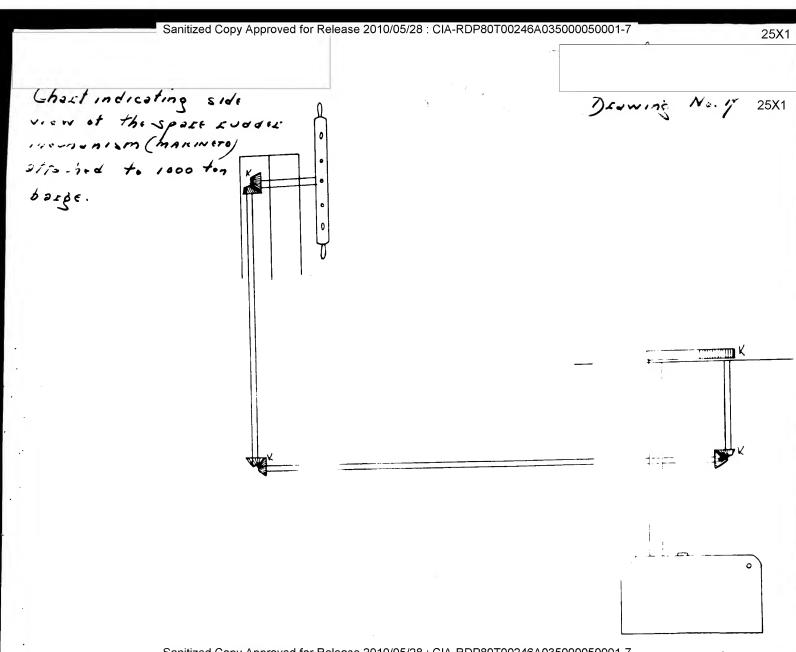
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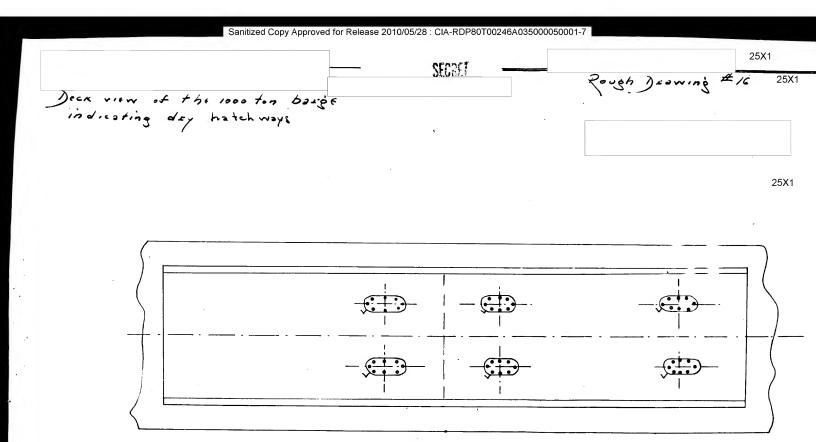


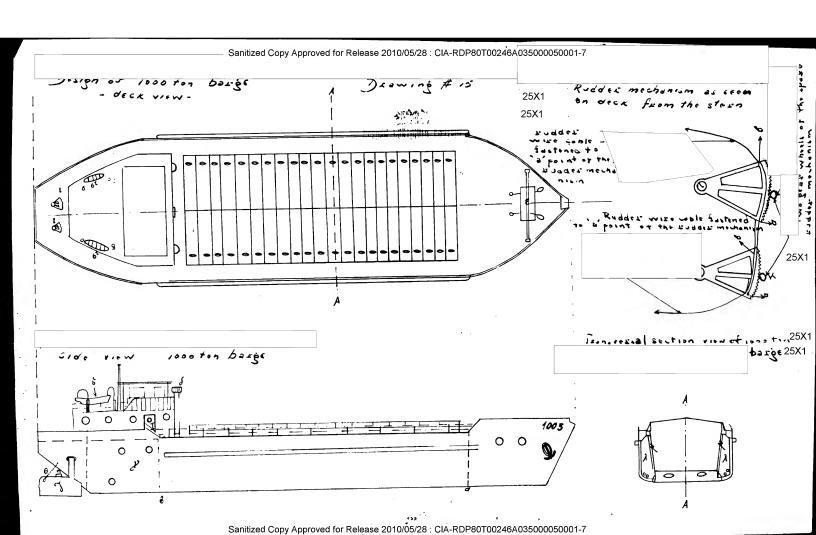
	SECRET	Koséh i Kowine #19	25X1
Front View of Lathe Machine Snow -South View-	j± 4.3	ATTACHACAT	

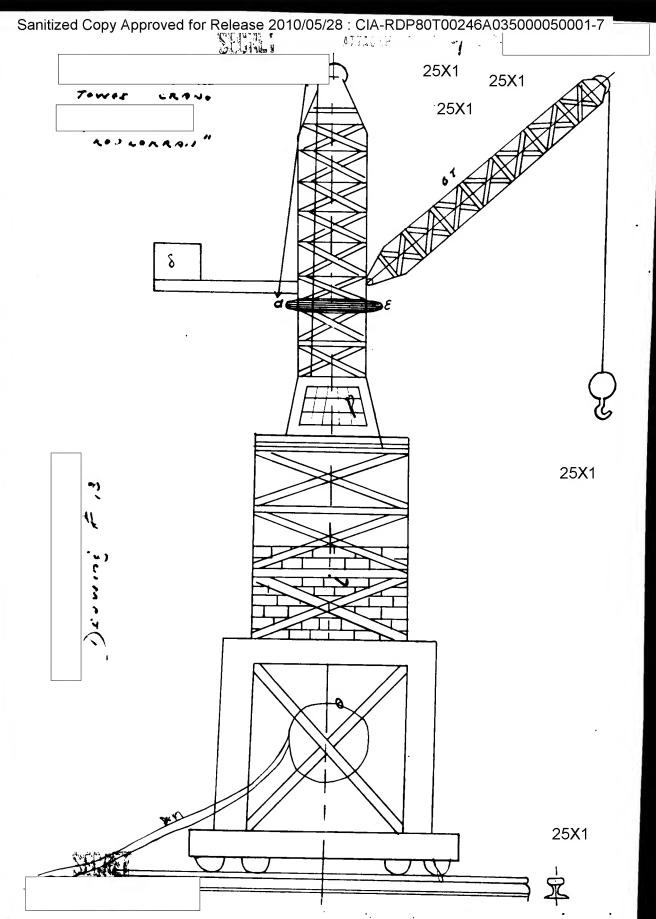
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Sanitized Copy Approved for Release 2010/05/28 : CIA-RDP80T00246A035000050001-7 25X1 View of No. 1 200000 in vacio incering day dock stores TOP Drowing 25X1 800 25X1 ε The state of the s 25X1 Sist tiem indicating dry dock stuice 25X1